

# California Advanced Homes Program

program overview

HELPING BUILDERS TODAY  
FOR TOMORROW'S ENVIRONMENT

NSHP Training  
March 9, 2010





# brand new program



- New program, new name
- Began January 1, 2010
- Statewide program consistent across California's Investor Owned Utilities (IOU's)
- Residential new construction
- Whole house, performance-based energy efficiency incentive program
- Incentive 'Bonus' Kickers
- Design Team Incentive

## A large, two-story house with a tan stucco upper level and a stone veneer lower level. The house features a tiled roof, multiple windows with dark shutters, and a covered front porch with white columns. The front yard is landscaped with green grass, shrubs, and a concrete sidewalk.

- [illegible]

- ☐ Windows, glass doors, skylights—specification sheet with manufacturer's nameplate that includes U-factor and Solar Heat Gain Coefficient (SHGC)
- ☐ Space heating equipment—specification sheet with manufacturer's nameplate/model number/efficiency rating for each unit
- ☐ Air conditioner—specification sheet with manufacturer's nameplate/model number for noncondensing models or refrigerant number and capacity for each proposed unit (`ModelAndRefrigerantCapacity`) that has an efficiency rating GREATER than SEER L (SEER L)
- ☐ Water heater—specification sheet with manufacturer's nameplate/model number and efficiency rating if installing a solar water heater; a CF-SR is required.
- ☐ Roofing material—specification sheet which shows emissivity and reflectivity value of product
- ☐ Specification sheets for any special features as shown in your Title 24 calculations report

**ENERGY STAR-rated appliances**—Specification sheets with manufacturer's nameplate number and ENERGY STAR label. An Energy Star Commission seal is installed by the builder.

**ENERGYSTAR.org/appliances**





# program components & benefits

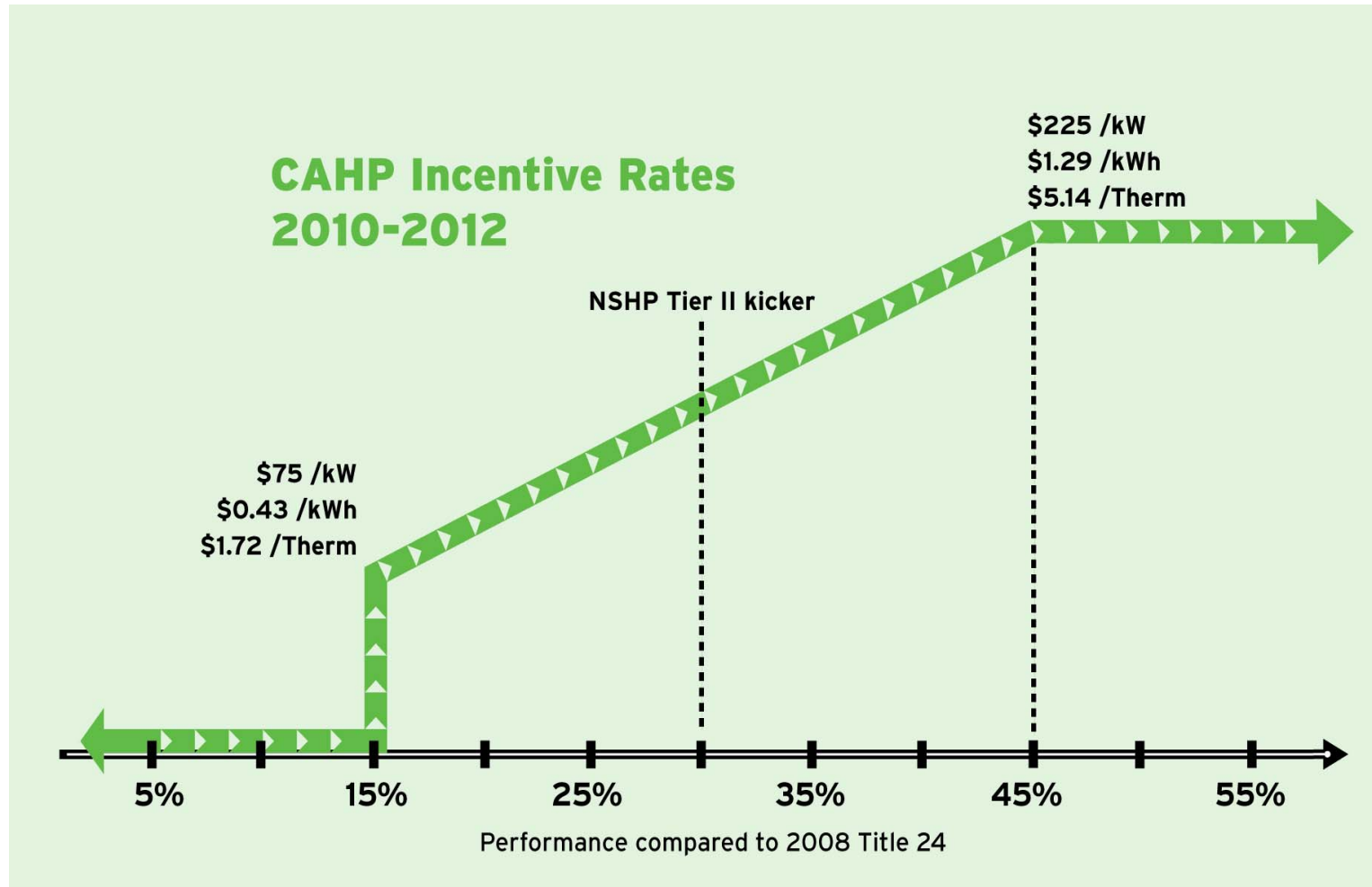


## Benefits: Why Builders Should Participate

- Incentives – Base Incentive, plus ‘Bonus’ Kicker
- Independent 3<sup>rd</sup> Party Inspections for Quality Control
- Marketing Potential
- Optional ENERGY STAR participation receives EPA recognition through ENERGY STAR campaigns
- Homebuyers save on utility bills
- New homes buyers enjoy comfortable, energy-efficient homes
  - High-efficiency water heaters
  - Proper home sealing
  - Radiant barrier
  - High-performance windows
  - ENERGY STAR appliances
  - EE heating & cooling equipment
  - Upgraded insulation
  - Tightly sealed air ducts
  - Maximum Cooling Capacity

**Note: Projects must be enrolled prior to installation of drywall**

# incentive structure



# 'bonus' kickers



- California ENERGY STAR New Homes
  - 10% bonus incentive
- Green Home Certification
  - 10% bonus incentive
- Compact Home
  - 15% bonus incentive
- kW Reduction
  - Same \$/kW as baseline incentive for PV
- Design Team Incentive
  - 50% of cost of design charrette up to \$5,000
- NSHP Tier 2 (30% better than 2008 Title 24)
  - \$1,000 bonus incentive

**Note: Bonus is calculated from the base incentive**

# utility incentive worksheet EnergyPro (Util-1R)

UTILITY INCENTIVE WORKSHEET				UTIL-1R		
Project Name				Date		
Education Version for Instructional Class Assignments Only.				1/4/2010		
Step 1 ANNUAL TDV ENERGY USE (kBtu/sq-ft-yr)			Step 2 PERCENT BELOW TITLE 24			
ENERGY COMPONENT	Standard	Proposed	Margin			
Space Heating	6.86	5.00	1.86			
Space Cooling	24.02	12.31	12.32			
Indoor Fans	0.00	4.00	2.95			
Domestic Hot Water	17.05	12.14	4.91			
Pumps	0.00	0.00	0.00			
TOTALS:			55.46	33.51	21.98	
Step 3 ANNUAL SITE ENERGY USE			Single Orientation			
Average 2pm - 5pm			Standard	Proposed	Margin	
Peak Demand (kW)			4.0	3.1	1.8	
ENERGY COMPONENT	Standard Electricity (kWh)	Standard Natural Gas (therms)	Proposed Electricity (kWh)	Proposed Natural Gas (therms)	Margin Electricity (kWh)	Margin Natural Gas (therms)
Space Heating	0	86	0	64	0	23
Space Cooling	1,087	0	813	0	874	0
Indoor Fans	581	0	354	0	227	0
Domestic Hot Water	0	230	0	164	0	66
Pumps	0	0	0	0	0	0
TOTALS:			2,268	316	1,101	89
Step 4 POTENTIAL OWNER INCENTIVE CALCULATION						
Potential incentives indicated on this report are available only through the California Advanced Homes Program for new construction and are NOT GUARANTEED. Projects must meet all other program requirements to qualify. Potential incentives are subject to program limitations.						
Electricity (kWh)		% Below Title-24* (from step 2)	Incentive Rate	Savings (from Step 3)	Subtotal	
Electricity (kWh)		30.5 %	1.14 \$/kWh	1,101 kWh	\$1,255	
Electricity (kW)		30.5 %	108 \$/kW	1.8 kW	\$350	
Natural Gas		30.5 %	4.52 \$/therm	89 therm	\$402	
Base Incentive					\$2,013	
Energy Star Incentive		n/a	10%		n/a	
Green Home Incentive		n/a	10%		n/a	
Compact Home Incentive		\$2,013	15%		\$302	
Photovoltaic Incentive		\$198	2.0 DC Rating kW		\$396	
NSHP					\$1,000	
Total					\$3,711	
*% Below in this equation is limited to 45%.						

- Generated by the compliance software
- Will provide estimated savings and incentives





# utility incentive worksheet from MicroPas (Above Code Report)



- Currently Under Construction

# thank you

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